IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A method of determining the germination vigour, and/or the storage capability, or the germination vigour and the storage capacity of a seed batch, characterized in that it comprises comprising quantifying, on a sample of seeds taken from said batch, the one or more proteins recognized by at least one anti-L-isoaspartyl methyltransferase antibodies antibody directed against a region of said protein one or more proteins, wherein the region is selected from the group consisting of

a region defined by the sequence: RYVPLTSRX₁X₂QLX₃ (SEQ ID NO: 1),

wherein X₁ is E, V or S, X₂ is A or E, and X₃ is R, G or Q,

a region defined by the sequence: QX₄LX₅VX₆DKX₇X₈DGSX₉X₁₀X₁₁ (SEQ ID NO:

2),

wherein X_4 is D or E, X_5 is Q or K, X_6 is V or I, X_7 is N or S, X_8 is S, E or A, X_9 is either a dipeptide selected from the group consisting of IS, VS, VT and TS, or a peptide bond, X_{10} is I or V, and X_{11} is K, Q or R, a region defined by the sequence: QDLQVVDKNSDGSVSIK (SEQ ID NO: 3), and a region defined by the sequence: RYVPLTSREAQLR (SEQ ID NO: 5)

defined by the sequence (I): RYVPLTSRX₁X₂QLX₃ (SEQ ID NO: 1), in which X₁ represents E, V or S, X₂ represents A or E, and X₃ represents R, G or Q.

Claim 2 (Currently Amended): The method as claimed in claim 1, characterized in that the quantification of the L isoaspartyl methyltransferase is carried out using an wherein the region is the region defined by the sequence: RYVPLTSRX₁X₂QLX₃ (SEQ ID NO: 1), wherein X₁ is E, V or S, X₂ is A or E, and X₃ is R, G or Q anti L isoaspartyl methyltransferase antibody chosen from:

Claim 4 (Currently Amended): The An anti-L-isoaspartyl methyltransferase antibody as defined in either of claims 2 and 3 selected from the group consisting of

an anti-L-isoaspartyl methyltransferase antibody directed against a protein region defined by the sequence: $RYVPLTSRX_1X_2QLX_3$ (SEQ ID NO: 1), wherein X_1 is E, V or S, X_2 is A or E, and X_3 is R, G or Q,

an anti-L-isoaspartyl methyltransferase antibody directed against a protein region defined by the sequence: QX₄LX₅VX₆DKX₇X₈DGSX₉X₁₀X₁₁ (SEQ ID NO: 2), wherein X₄ is D or E, X₅ is Q or K, X₆ is V or I, X₇ is N or S, X₈ is S, E or A, X₉ is either a dipeptide selected from the group consisting of IS, VS, VT and TS, or a peptide bond, X₁₀ is I or V, and X₁₁ is K, Q or R, an antibody directed against a protein region defined by the sequence:

QDLQVVDKNSDGSVSIK (SEQ ID NO: 3), and

an antibody directed against a protein region defined by the sequence:

RYVPLTSREAQLR (SEQ ID NO: 5).

Claim 5 (Currently Amended): A method of quantifying the L-isoaspartyl methyltransferase in plant material, characterized in that it comprises comprising bringing said <u>plant</u> material into contact with <u>an the</u> anti-L-isoaspartyl methyltransferase antibody as claimed in claim 4.

Claim 6 (Canceled).

Claim 7 (New): The method as claimed in claim 1, wherein the region is the region defined by the sequence: QDLQVVDKNSDGSVSIK (SEQ ID NO: 3).

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Claim 8 (New): The method as claimed in claim 1, wherein the region is the region defined by the sequence: RYVPLTSREAQLR (SEQ ID NO: 5).